

Form PTO-1449

Attorney Docket No.  
062004-1800Serial No.  
09/927,193

## INFORMATION DISCLOSURE CITATION

Applicant  
Starnier, et al.Filing Date  
8/10/01Group  
TBA

(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS


| Examiner<br>Initials | Item | Document<br>Number | Date     | Name               | Class | Subclass | Filing Date<br>If Appropriate |
|----------------------|------|--------------------|----------|--------------------|-------|----------|-------------------------------|
| DEC 31 2001          | A.   | 4,988,981          | 1/29/91  | Zimmerman, et al.  | 340   | 709      |                               |
|                      | B.   | 5,047,952          | 9/10/91  | Kramer, et al.     | 364   | 513.5    |                               |
|                      | C.   | 5,168,531          | 12/01/92 | Sigel              | 382   | 48       |                               |
|                      | D.   | 5,252,951          | 10/12/93 | Tannenbaum, et al. | 345   | 156      |                               |
|                      | E.   | 5,319,747          | 6/7/94   | Gerrissen, et al.  | 395   | 155      |                               |
|                      | F.   | 5,454,043          | 9/26/95  | Freeman            | 382   | 168      |                               |
|                      | G.   | 5,581,276          | 12/3/96  | Cipolla, et al.    | 345   | 156      |                               |
|                      | H.   | 5,594,469          | 1/14/97  | Freeman, et al.    | 345   | 158      |                               |
|                      | I.   | 5,699,441          | 12/16/97 | Sagawa, et al.     | 382   | 100      |                               |
|                      | J.   | 5,767,842          | 6/16/98  | Korth              | 345   | 168      |                               |
|                      | K.   | 5,809,267          | 9/15/98  | Moran, et al.      | 395   | 358      |                               |
|                      | L.   | 5,875,257          | 2/23/99  | Marrin, et al.     | 382   | 107      |                               |
|                      | M.   | 5,887,069          | 3/23/99  | Sakou, et al.      | 382   | 100      |                               |
|                      | N.   | 5,914,701          | 6/22/99  | Gersheneld, et al. | 345   | 156      |                               |
|                      | O.   | 6,002,808          | 12/14/99 | Freeman            | 382   | 288      |                               |
|                      | P.   | 6,035,274          | 3/7/00   | Kramer, et al.     | 704   | 270      |                               |
|                      | Q.   | 6,043,805          | 3/28/00  | Hsieh              | 345   | 158      |                               |
|                      | R.   | 6,049,327          | 4/11/00  | Walker, et al.     | 345   | 158      |                               |
|                      | S.   | 6,072,494          | 6/26/00  | Nguyen             | 345   | 358      |                               |
|                      | T.   | 6,075,895          | 6/13/00  | Qiao, et al.       | 382   | 218      |                               |
|                      | U.   | 6,111,580          | 8/29/00  | Kazama, et al.     | 345   | 358      |                               |
|                      | V.   | 6,116,907          | 9/12/00  | Baker, et al.      | 434   | 156      |                               |
|                      | W.   | 6,128,003          | 10/3/00  | Smith, et al.      | 345   | 157      |                               |
|                      | X.   | 6,147,678          | 11/14/00 | Kumar, et al.      | 345   | 158      |                               |
|                      | Y.   | 6,151,208          | 11/21/00 | Barlett            | 361   | 683      |                               |
|                      | Z.   | 6,160,899          | 12/12/00 | Lee, et al.        | 382   | 103      |                               |
|                      | AA.  | 6,181,343          | 1/30/01  | Lyons              | 345   | 358      |                               |
|                      | BB.  | 6,181,778          | 1/30/01  | Ohki, et al.       | 379   | 52       |                               |
|                      | CC.  | 6,191,773          | 2/20/01  | Maruno, et al.     | 345   | 158      |                               |
|                      | DD.  | 6,215,890          | 4/10/01  | Matsuo, et al.     | 382   | 103      |                               |
|                      | EE.  | 6,222,465          | 4/24/01  | Kumar, et al.      | 341   | 20       |                               |
|                      | FF.  | 6,244,873          | 6/12/01  | Hill, et al.       | 434   | 236      |                               |

0360 Page 1 of 2

12/6/03

| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) |  |  |
|--|--|--|
| GG.  | H. Hefter, V. Homberg, and H. J. Freund, Quantitative analysis of voluntary and involuntary motor phenomena in parkinson's disease, In. H. Przuntek and P. Riederer, editors, Early Diagnosis and Preventative Therapy in Parkinson's Disease. Springer-Verlag Wien, New York, NY 1989.  |  |
| HH.  | S. Young, HTK: Hidden Markov Model Toolkit V1.5. Cambridge Univ. Eng. Dept. Speech Group and Entropic Research Lab, Inc., Washington, DC 1993.   |  |
| II.  | D. M. Roy, M. Panayi, R. Erenshteyn, R. Foulds, and R. Fawcus. Gestural human-machine interaction for people with severe speech and motor impairment due to cerebral palsy. In Conference on Human Factors in Computing Systems, Boston, MA, April 1994.   |  |
| JJ.  | Thad Starner, Steve Mann, Bradley Rhodes, Jeffrey Lavine, Jennifer Healey, Dane Kirsch, Rosalind W. Picard, Alex Pentland, Augmented Reality Through Wearable Computing. 1997.   |  |
| KK.  | Thad Starner, Joshua Weaver and Alex Pentland, A Wearable Computer-Based American Sign Language Recogniser, 1:241-250, Springer-Verlag London Ltd. Personal Technologies (1997).   |  |
| LL.  | Teodorescu, Horia-Nicolai; Mlynek, Daniel; Kandel, Abraham, Ropota, Ion; Teodorescu, Cornelia; Posa, Constantin; Brezilianu, Adrian; Ciorap, Radu. Analysis of chaotic movements and fuzzy assessment of hands tremor in rehabilitation. The 1998 2nd International Conference on knowledge-Based Intelligent Electronic Systems (KES '98), Adelaide, Aust, 04/21-4/23/98. |  |
| MM.  | Yasounobu Yamauchi, Gesture-Based Ping-Pong Game Using Real-Time Depth-Image Input Device, International Conference on Computer Graphics and Interactive Techniques, New Orleans, LA, July 23-28, 1998.  |  |
| NN.  | T. Starner, J. Weaver, and A. Pentland. Real-time American Sign Language recognition using desk and wearable computer-based video. IEEE Trans. Patt. Analy. And Mach. Intell., 20(12), December 1998.  |  |
| OO.  | Lauk, M; Timmer, J; Luecking, CH; Honerkamp, J; Deuschl, G AF. Software for recording and analysis of human tremor. Computer Methods and Programs in Biomedicine [Comput Methods Prog Biomed], vol. 60, no. 1, pp. 65-77, 1999.  |  |
| PP.  | I. Essa. Ubiquitous sensing for smart and aware environments. In DARPA/NIST/NSF Workshop on Smart Environments, Atlanta, GA, July 1999.  |  |
| QQ.  | C. Kidd, R. Orr, G. Abowd, C. Atkeson, I. Essa, B. MacIntyre, E. Mynatt, T. Starner, and W. Newstetter. The aware home: A living laboratory for ubiquitous computing research. In Second International Workshop on Cooperative Buildings, 1999.  |  |
| RR.  | Thad Starner, Wearable Computing and Contextual Awareness, PhD thesis, MIT Media Laboratory, April 30, 1999, <a href="http://www.gvu.gatech.edu/ccg/publications/starner-phd">http://www.gvu.gatech.edu/ccg/publications/starner-phd</a> .   |  |
| SS.  | Quinn, Niall, Progress in functional neurosurgery for Parkinson's Disease, Lancet 1999; 354 (9191) 1658-1659. Nov. 13, 1999  |  |
| TT.  | R. Orr and G. Abowd. The smart floor: A mechanism for natural user identification and tracking. In Conference on Human Factors in Computing Systems. The Hague, Netherlands, April 2000.   |  |
| UU.  | C. Kidd and K. Lyons, Widespread Easy and Subtle Tracking with Wireless Identification Networkless Devices - WEST WIND: an Environmental Tracking System, October 2000   |  |
|  |  |  |
|  |  |  |
|  |  |  |

\* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

|   |                          |
|---|--------------------------|
| EXAMINER'S SIGNATURE:  | DATE CONSIDERED: 12/6/03 |
|---|--------------------------|



Form PTO-1449

**INFORMATION DISCLOSURE CITATION***(Use several sheets if necessary)*Attorney Docket No.  
**62004-1800**Serial No.  
**09/927,193**Applicant  
**Starnier et al.**Filing Date  
**8/10/01**Group  
**2874****U.S. PATENT DOCUMENTS**

| Examiner Initials | Item | Document Number | Date     | Name            | Class | Subclass | Filing Date If Appropriate |
|-------------------|------|-----------------|----------|-----------------|-------|----------|----------------------------|
| <i>SPR</i>        | A    | 6,144,366       | 11/7/00  | Numazaki et al. | 345   | 156      |                            |
| <i>SPR</i>        | B    | 6,097,374       | 8/1/00   | Howard          | 345   | 168      |                            |
| <i>SPR</i>        | C    | 6,307,526       | 10/23/01 | Mann            | 345   | 8        |                            |
|                   | D    |                 |          |                 |       |          |                            |
|                   | E    |                 |          |                 |       |          |                            |
|                   | F    |                 |          |                 |       |          |                            |
|                   | G    |                 |          |                 |       |          |                            |
|                   | H    |                 |          |                 |       |          |                            |
|                   | I    |                 |          |                 |       |          |                            |
|                   | J    |                 |          |                 |       |          |                            |
|                   | K    |                 |          |                 |       |          |                            |

**COPY OF PAPERS  
ORIGINALLY FILED****FOREIGN PATENT DOCUMENTS**

|  | Document Number | Date | Country | Class | Subclass | Translation |
|--|-----------------|------|---------|-------|----------|-------------|
|  |                 |      |         |       |          | Yes No      |
|  | L               |      |         |       |          |             |
|  | M               |      |         |       |          |             |
|  | N               |      |         |       |          |             |
|  | O               |      |         |       |          |             |

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)**

|            |   |   |
|------------|---|---|
| <i>SPR</i> | P | Vardy, A. et al. "The EristCam as Input Device", The Third International Symposium on Wearable Computer, 1999.  |
| <i>SPR</i> | Q | Starnier, T. et al. "The Gesture Pendant: A Self-Illuminating, Wearable, Infrared Computer Vision System for Home Automation Control and Medical Monitoring", The Fourth International Symposium on Wearable Computers, 2000. |
| 1          | R |   |

\* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

EXAMINER'S SIGNATURE:

DATE CONSIDERED:

*12/6/03*